

IN THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A transdermal delivery system (TDS) comprising
a backing layer, a self-adhesive matrix containing a self-adhesive polymer and microreservoirs containing an amine-functional drug selected from the group consisting of fentanyl and oxybutynin,
wherein the microreservoirs are within the self-adhesive matrix and have a maximum diameter less than the thickness of the self-adhesive matrix; and wherein the self-adhesive matrix is permeable to the amine-functional drug in free base form, and the self-adhesive matrix is substantially impermeable to the amine functional drug in protonated form,
; and a protective foil or sheet to be removed prior to use,
wherein the self-adhesive matrix comprises a solid or semisolid semi-permeable polymer
(1) wherein the amine-functional drug in its free base form is incorporated,
(2) which comprises within the matrix 10^3 to 10^9 microreservoirs per cm^2 of the surface of the matrix, said microreservoirs containing the amine functional drug,
(3) which is permeable to the free base of the amine functional drug,
(4) which is substantially impermeable to the protonated form of the amine functional drug, and
(5) wherein the maximum diameter of the microreservoirs is less than the thickness of the matrix and is not greater than 35 μm ;
and wherein the backing layer is inert to the components of the matrix.
2. (Previously presented) The TDS of claim 1, wherein the mean diameter of the microreservoirs is in the range of 0.5 to 20 μm .
- 3-9. (Cancelled)

10. (Currently Amended) The TDS of claim 1, wherein the self-adhesive matrix is free of silica particles that can absorb salts of the amine functional drug at the TDS/skin interface.
11. (Previously Presented) The TDS of claim 1, wherein the self-adhesive matrix comprises a silicone pressure sensitive adhesive.
12. (Previously Presented) The TDS of claim 1, wherein the self-adhesive matrix comprises two or more silicone pressure sensitive adhesives.
13. (Previously presented) The TDS of claim 12, wherein the silicone pressure sensitive adhesive is a blend of a high tack silicone pressure sensitive adhesive comprising polysiloxane with a resin and a medium tack silicone pressure sensitive adhesive comprising polysiloxane with a resin.
14. (Cancelled)
15. (Currently Amended) The TDS of claim 1, wherein the microreservoirs **additionally further** contain at least one crystallization inhibitor comprising soluble polyvinylpyrrolidone, a copolymer of polyvinylpyrrolidone and vinyl acetate, polyethylene glycol, polypropylene glycol, glycerol, a fatty acid ester of glycerol and/or a copolymer of ethylene and vinyl acetate.
16. (Previously presented) The TDS of claim 15, wherein the at least one crystallization inhibitor comprises soluble polyvinylpyrrolidone.
17. (Currently amended) The TDS of claim 1, **comprising wherein the self-adhesive matrix contains 10^6 to 10^9 10^3 to 10^9** microreservoirs per cm^2 of the surface of the matrix.
18. (Previously presented) The TDS of claim 1, wherein the maximum diameter of the microreservoirs is **2.5 to $30\text{ }\mu\text{m}$ is not greater than $35\text{ }\mu\text{m}$** .
19. (New) The TDS of claim 1, further comprising a protective foil or sheet to be removed prior to use.
20. (New) The TDS of claim 1, further comprising a backing layer.

21. (New) The TDS of claim 20, wherein the backing layer is inert to the components of the matrix.
22. (New) The TDS of claim 1, wherein the self-adhesive matrix comprises a solid or semisolid semi-permeable polymer.
23. (New) The TDS of claim 1, wherein the self-adhesive matrix contains 10^6 to 10^9 microreservoirs per cm^2 of the surface of the matrix.
24. (New) The TDS of claim 1, further comprising a backing layer being inert to the component of the matrix, and a protective foil or sheet to be removed prior to use, wherein the matrix contains 10^3 to 10^9 microreservoirs per cm^2 of the surface of the matrix, and wherein the maximum diameter of the microreservoirs is less than the thickness of the matrix and is not greater than 35 μm .
25. (New) A transdermal delivery system (TDS) comprising a self-adhesive matrix containing a self-adhesive polymer and microreservoirs containing an amine-functional drug selected from an aminotetralin compound, wherein the microreservoirs are within the self-adhesive matrix and have a maximum diameter less than the thickness of the self-adhesive matrix; and wherein the self-adhesive matrix is permeable to the amine-functional drug in free base form, and the self-adhesive matrix is substantially impermeable to the amine functional drug in protonated form.